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Pimephales notatus in the Lower Susquehanna.—This fish is said to range from Quebec to Delaware and west in the Mississippi valley, thus embracing the above-named river basin where, however, I have not found it recorded before. A number of examples, one a breeding male, was secured by Mr. Witmer Stone and myself while at York Furnace, York Co., Pa., during the middle of May. *Alosa sapidissima*, *Anguilla chrysypa*, *Brama crysoleucas*, *Notropis bifrenatus*, *N. analostanus*, *Rhinichthys atronasmus*, *Hybopsis kentuckiensis*, *Ameiurus nebulosus*, *Fundulus diaphanus*, *Lepomis auritus*, *Eupomotis gibbosus*, *Perca flavescens*, *Boleosoma nigrum olmstedii*, *Plethodon erythronotus*, *P. glutinosus*, *Diemyctylus viridescens*, *D. miniatus*, *Desmognathus fuscus*, *Acris gryllus crepitans*, *Hyla pickeringii*, *H. versicolor*, *Rana palustris*, *R. clamata*, *R. catesbiana*, *R. pipiens*, *Natrix sipedon*, *Thamnophis sirtalis*, *Chrysemys picta*, and *Terrapene carolina* were taken, seen, or heard. With the exception of a single small *Exoglossum maxillingua* found in Otter Creek, no fishes were obtained in any of the nearby tributaries, all of which are swift, rocky, and of rapid descent. Besides the above, *Petromyzon marinus*, *Pomolobus pseudoharengus*, *Salvelinus fontinalis*, *Ameiurus catus*, *Stizostedion vitreum*, *Roccus americanus*, *Morone americanus*, and *Cryptobranchius alleganiensis* were reported to occur though we did not see any examples.

HENRY W. FOWLER

Notes.—*Origin of the Vascular Endothelium and of the Blood in Amphibia.*—Kati Marcinowski has attacked this vexed problem, using for his material *Siredon* and *Bufo*. His results are summarized as follows (*Jen. Zeitschr.*, vol. 34, 1906):—

The vascular endothelium arises from the mesenchyme and chiefly and possibly exclusively from the secondary mesenchyme. The primary mesenchyme which perhaps contributes, is derived from the ectoderm. No traces were seen of the origin of mesenchyme from the entoderm.

Vascular and blood formation is localized in two regions which in position correspond to the site of the dorsal and ventral mesenteries—sclerotomal and medioventral mesoderm regions. Besides the formation of endothelia from localized anlagen there is also a similar formation from diffusely appearing wandering cells and in connective tissue.

In their first appearance the results are either solid at first and at the first appearance of a lumen are closed to all other cavities or they